



UNIVERSITY OF ESWATINI
FINAL EXAMINATION PAPER

PROGRAMME : BACHELOR OF SCIENCE IN TEXTILE
APPAREL DESIGN and MANAGEMENT YEAR
IV

COURSE CODE : TAD403

TITLE OF PAPER : QUALITY CONTROL AND ASSURANCE IN
TEXTILES

TIME ALLOWED : TWO (2) HOURS

INSTRUCTIONS : ANSWER QUESTION ONE (1)
AND ANY OTHER TWO (2) QUESTIONS

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THE CHIEF INVIGILATOR**

QUESTION 1 (COMPULSORY)

- a) Discuss any **four (4)** factors that a company has to consider when deciding whether to use in-house or independent testing facilities. (12 Marks)
- b) Briefly describe the following types of specifications
 - i. Target
 - ii. Functional
 - iii. Material
 - iv. Product(8 Marks)
- c) Describe how the Grab tensile testing method is carried out. (10 Marks)
- d) Define quality assurance and with the aid of a flow diagram show all the concepts involved in quality assurance. (10 Marks)

[TOTAL MARKS = 40]

QUESTION 2

- a) Discuss **three (3)** criteria considered when developing a standard. (15 Marks)
- b) Your department has been receiving a lot of customer complaints relating to poor dye absorption in a particular fabric lot. Discuss any **three (3)** qualitative procedures that you can use to identify the generic fibre types present in the fabric lot. (15 Marks)

[TOTAL MARKS = 30]

QUESTION 3

- a) Fabric defects can take any one of two forms. Discuss those forms and give an example of each. (10 Marks)
- b) Zippers play an important role in garments allowing among many things close fitting garments possible. With the aid of an illustration show the main elements of a zipper. (12 Marks)
- c) Describe the mechanisms in which heat can be transferred from one point or surface to another. (8 Marks)

[TOTAL MARKS= 30]

QUESTION 4

- a) Briefly discuss how the following elements are evaluated when evaluating finished products:
- i. design
 - ii. fit
 - iii. appearance
- (15 Marks)
- b) Describe source inspection. (9 Marks)
- c) Explain the effect of moisture on properties of textile materials, use **one (1)** example in your explanation. (6 Marks)

[TOTAL MARKS= 30]